BEFORE THE PUBLIC UTILITIES COMMISSION OF THE FILE STATE OF CALIFORNIA 09-08-06 02:59 PM

Order Instituting Rulemaking to Implement the)	
Commission's Procurement Incentive Framework)	Rulemaking 06-04-009
and to Examine the Integration of Greenhouse)	(Filed April 13, 2006)
Gas Emissions Standards into Procurement)	
Policies.)	

OPENING COMMENTS OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) ON DRAFT WORKSHOP REPORT

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POST-WORKSHOP COMMENTS OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E)

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I.

INTRODUCTION

Pursuant to the Administrative Law Judge's Ruling on Phase 1 Post-Workshop

Comments, Schedule, and Other Procedural Matters issued by Administrative Law Judge (ALJ)

Meg Gottstein on July 7, 2006, and the extension of time granted by Acting Assistant Chief ALJ

Janet Econome, dated August 28, 2006, Southern California Edison Company (SCE) hereby submits its Opening Comments on the Draft Workshop Report (Opening Comments).

On August 21, 2006, Commission Workshop Staff issued a Workshop Report entitled, "Draft Interim Emissions Performance Standard Program Framework" (Workshop Report) summarizing the three-day workshop conducted by the California Public Utilities Commission (Commission) in this climate change policy proceeding on June 21-23, 2006 in San Francisco. During this workshop, parties and staff considered the design and implementation structure of an interim emissions performance standard (EPS) program prior to implementation of a greenhouse

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PG&E requested an extension of time in an email dated August 25, 2006, on behalf of several parties. Acting Assistant Chief ALJ Econome extended the date for filing Opening Comments from September 1 to September 8, 2006, and for filing Reply Comments from September 12 to September 15, 2006.

gas (GHG) cap that would apply to the three major investor-owned electric utilities (IOUs),² jurisdictional energy service providers, and community choice aggregators that operate within an IOU's territory.

In the Workshop Report, Commission Staff outlines the background and purpose of the workshops, reviews participants' comments on key points, summarizes the advantages and disadvantages that participants attributed to key issues associated with an interim EPS program, and includes a revised version of the staff proposal for an EPS program. In Opening Comments, parties were directed to discuss their views on the Revised Staff Proposal, supporting their arguments with specific examples whenever possible, and not to repeat comments or previous arguments submitted in this phase of the proceeding.³

Since the Workshop Report was issued, however, the California Legislature passed
Senate Bill (SB) 1368 on August 31, 2006. Governor Schwarzenegger is unlikely to veto this
bill. Thus, the bill will likely become law in the near future. When it does become law, the
Commission will have to follow the legislative requirements in SB 1368. As such, the
Commission should modify the schedule in this proceeding to allow for reconciliation of the
Revised Staff Proposal with the provisions of SB 1368. SCE recommends that the Commission
hold another workshop for the parties to discuss the changes that are required in the Revised
Staff Proposal due to SB 1368, as well as to choose an appropriate EPS in consultation with the
California Energy Commission (CEC) and the California State Air Resources Board (CARB).

In these Opening Comments, SCE will identify certain areas that will require modification.

The term "IOUs" refers collectively to Pacific Gas and Electric Company (PG&E), San Diego Gas & Electric Company (SDG&E), and SCE, the utility respondents to the this proceeding.

Workshop Report, p. 42 of 81.

SB 1368 is an act to add Chapter 3 (commencing with Section 8340) to Division 4.1 of the Public Utilities Code, relating to electricity, introduced in the Senate by Senator Perata and coauthored by Assembly Member Levine.

Under SB 1368, the Commission will set the standard for its jurisdictional LSEs and the CEC will set the standard for local publicly owned electric utilities. New PUC Code Sections 8341(a).

DISCUSSION

A. The Commission Must Re-Evaluate the Schedule and Goals of this Proceeding in Light of SB 1368 and AB 32.

SB 1368 resolves several issues that arose during the course of this proceeding. It provides direction to the Commission on the manner in which it should establish a GHG EPS and adds the following section to the Public Utilities Code:

8341(d) (1) On or before February 1, 2007, the commission, through a rulemaking proceeding, and in consultation with the Energy Commission and the State Air Resources Board, shall establish a greenhouse gases emission performance standard for all baseload generation of load-serving entities, at a rate of emissions of greenhouse gases that is no higher than the rate of emissions of greenhouse gases for combined-cycle natural gas baseload generation. Enforcement of the greenhouse gases emission performance standard shall begin immediately upon the establishment of the standard. All combined-cycle natural gas powerplants that are in operation, or that have an Energy Commission final permit decision to operate as of June 30, 2007, shall be deemed to be in compliance with the greenhouse gases emission performance standard.

- (2) In determining the rate of emissions of greenhouse gases for baseload generation, the commission shall include the net emissions resulting from the production of electricity by the baseload generation.
- (3) The commission shall establish an output-based methodology to ensure that the calculation of emissions of greenhouse gases for cogeneration recognizes the total usable energy output of the process, and includes all greenhouse gases emitted by the facility in the production of both electrical and thermal energy.
- (4) <u>In calculating the emissions of greenhouse gases by facilities generating electricity from biomass, biogas, or landfill gas energy, the commission shall consider net emissions from the process of growing, processing, and generating the electricity from the fuel source.</u>

- (5) Carbon dioxide that is injected in geological formations, so as to prevent releases into the atmosphere, in compliance with applicable laws and regulations shall not be counted as emissions of the powerplant in determining compliance with the greenhouse gases emissions performance standard.
- (6) In adopting and implementing the greenhouse gases emission performance standard, the commission, in consultation with the Independent System Operator shall consider the effects of the standard on system reliability and overall costs to electricity customers.
- (7) In developing and implementing the greenhouse gases emission performance standard, the commission shall address long-term purchases of electricity from unspecified sources in a manner consistent with this chapter.
- (8) In developing and implementing the greenhouse gases emission performance standard, the commission shall consider and act in a manner consistent with any rules adopted pursuant to Section 824a-3 of Title 16 of the United States Code.
- (9) An electrical corporation that provides electric service to 75,000 or fewer retail end-use customers in California may file with the commission a proposal for alternative compliance with this section, which the commission may accept upon a showing by the electrical corporation of both of the following:
- (A) A majority of the electrical corporation's retail end-use customers for electric service are located outside of California.
- (B) The emissions of greenhouse gases to generate electricity for the retail end-use customers of the electrical corporation are subject to a review by the utility regulatory commission of at least one other state in which the electrical corporation provides regulated retail electric service. [Emphasis added.]

SB 1368 covers the issues that constitute Phase I of this proceeding as defined in the Order Instituting Rulemaking 06-04-009. It resolves several issues that were debated in the Workshop and in briefs. For example, SB 1368 implements PUC Code section 8340(a), which defines "baseload," "Long-term financial commitment," and "powerplant":

⁶ OIR.06-04-009, *mimeo*, pp. 9-10.

- (a) "Baseload generation" means electricity generation from a powerplant that is designed and intended to provide electricity at an annualized plant capacity factor of at least 60 percent.⁷
- (j) "Long-term financial commitment" means either a new ownership investment in baseload generation or a new or renewed contract with a term of five or more years, which includes procurement of baseload generation.8
- (m) "Powerplant" means a facility for the generation of electricity, and includes one or more generating units at the same location.⁹

In addition to SB 1368, Assembly Bill (AB) 32, the California Global Warming Solutions Act of 2006, was passed and sent to the Governor for signature on September 6, 2006. This law, among other things, will require CARB (i) to adopt regulations to require the reporting and verification of statewide GHG emissions, (ii) to monitor and enforce compliance with this program, and (iii) to adopt a statewide GHG emissions limit equivalent to the statewide GHG emissions levels in 1990 to be achieved by 2020. Thus, AB 32 covers the issues that are scheduled for Phase II of this proceeding – to develop a GHG emissions cap. Consequently, the Commission must re-evaluate the schedule and goals of this proceeding in light of both SB 1368 and AB 32.

B. The Commission Needs to Adopt an Appropriate EPS in Light of SB 1368 in Consultation With the CEC and the CARB.

SB 1368 enacts provisions of the PUC that will adopt an EPS for both Commission jurisdictional Load Serving Entities (LSEs) and CEC jurisdictional local publicly owned electric

Debate was held over the appropriate percentage to use.

Debate was held over the appropriate length of contract term to use and whether to include renewals of existing contracts.

Debate was held over whether each unit at a site was a separate powerplant or whether all the units at the site were considered one powerplant.

http://www.leginfo.ca.gov/pub/bill/asm/ab 0001-0050/ab 32 bill 20060906 status.html

utilities. The EPS should be the same for LSEs and local publicly owned electric utilities. The Commission is directed by new PUC section 8341(d)(1) to consult with the CEC and the CARB in setting the EPS:

On or before February 1, 2007, the commission, through a rulemaking proceeding, and in consultation with the Energy Commission and the State Air Resources Board, shall establish a greenhouse gases emission performance standard for all baseload generation of load-serving entities, at a rate of emissions of greenhouse gases that is no higher than the rate of emissions of greenhouse gases for combined-cycle natural gas baseload generation. ... [Emphasis added.]

Similarly, new PUC section 8341(e)(1) directs the CEC to consult with the Commission and the CARB in setting the EPS for local publicly owned electric utilities.

In the Revised Staff Proposal, Commission Staff proposes an EPS of 1,000 lbs CO₂/MWh in Section 6(a):

- 6) What is the Standard and How Determined?
- a) Emissions standards based upon CCGT performance at ISO levels.

One standard for all covered facilities: equal to a high-performing new CCGT as discussed in the data request. The standard limit is 1000 lbs CO2/MWh.

The Commission should modify the EPS of 1,000 lbs CO₂/MWh set in the Revised Staff Proposal to be consistent with SB 1368. SB 1368 sets no specific limit for the EPS. Instead, it directs the Commission, in consultation with the CEC and the CARB, to conduct a rulemaking to determine the rate of emissions that is no higher than the rate of a combined-cycle natural gas baseload generator:

8341(d) (1) On or before February 1, 2007, <u>the [C]ommission</u>, through a rulemaking proceeding,

<u>11</u> PUC section 8341(a).

and in consultation with the Energy Commission and the State Air Resources Board, shall establish a greenhouse gases emission performance standard for all baseload generation of load-serving entities, at a rate of emissions of greenhouse gases that is no higher than the rate of emissions of greenhouse gases for combined-cycle natural gas baseload generation. Enforcement of the greenhouse gases emission performance standard shall begin immediately upon the establishment of the standard. All combined-cycle natural gas powerplants that are in operation, or that have an Energy Commission final permit decision to operate as of June 30, 2007. shall be deemed to be in compliance with the greenhouse gases emission performance standard. [Emphasis added.]

This provision provides that combined-cycle natural gas power plants that operate or have a final permit decision to operation as of June 30, 2007, will be deemed to comply with the GHG EPS. Unfortunately, other types of generation resources exist now and will exist on June 30, 2007, but will not be exempt from the EPS (*e.g.*, non-combined-cycle natural gas power plants and unspecified unit contracts from existing resources). All of these types of resources will likely have emissions higher than a new combined-cycle natural gas baseload generator, which appears to be the basis for the Revised Staff Proposal of 1,000 lbs CO₂/MWh. If the EPS is set too low, it will eliminate these types of facilities from operation.

SCE believes that the standard of 1,000 lbs CO₂/MWh is too low and could eliminate a significant amount of generation resources from being eligible to be procured by IOUs and other LSEs on a long-term basis. This number should be analyzed more fully in a workshop to discuss the redirection of this proceeding in light of SB 1368.

C. The Commission Should Provide for Exemptions for Significant Economic Impacts Caused by Application of the EPS, as Required by SB 1368.

The Commission Staff proposes reliability exemptions in Section 5(h) of the Revised Staff Proposal in the Draft Workshop Report:

5) Covered Power Sources

. . .

Reliability exemptions may be permitted, and will be considered on a case-by-case basis.

Exemptions should not be limited to reliability. Exemptions should also be considered on a case-by-case basis for significant economic impacts caused by applying the EPS. Thus, Section 5(h) does not go far enough. SB 1368 adopts PUC Code section 8341(d)(6), which should form the basis of an exemption to the performance standard:

(6) In adopting and implementing the greenhouse gases emission performance standard, the commission, in consultation with the Independent System Operator shall consider the effects of the standard on system reliability and overall costs to electricity customers. [Emphasis added.]

Thus, SB 1368 would not limit potential exemptions to reliability. SB 1368 goes further. Exemptions should also be considered on a case-by-case basis for significant economic impacts caused by applying the EPS. Thus, Section 5(h) of the Revised Staff Proposal should be amended as follows:

5) Covered Power Sources

. . .

h) Exemptions may be permitted on a case-by-case basis, such as for system reliability concerns and considering overall costs to electricity customers.

D. The Application of the Standard to Units and Contracts Needs Clarification in Light of SB 1368.

The Commission Staff proposes a standard in Section 7(e) of the Revised Staff Proposal in the Draft Workshop Report:

7) Application of the standard to units and contracts

. . .

e) <u>Unspecified resource contracts: apply CEC "Net System Power" average</u>. This is the statewide system average of the leftover energy in the system that is not claimed- includes in and out of state power, and anything that is not claimed by a CA utility, and is the most representative option reflecting CA LSE procurement activities. All LSEs would use the same average emissions factor, regardless of location in the state.

SB 1368 addresses unspecified resource contracts in its addition of Public Utilities Code Section 8341(d)(7):

In developing and implementing the greenhouse gases emission performance standard, the commission shall address long-term purchases of electricity from unspecified sources in a manner consistent with this chapter.

The CEC "Net System Power" average does not accurately reflect potential generation resources underlying unspecified resource contracts. No relationship exists between the leftover energy in the system used to calculate the Net System Power and unspecified purchase contracts. By its very definition, Net System Power is the CEC's calculation that approximates the mix of "leftover" or unaccounted for energy in the system. However, energy contracts without an upfront specified source are common transactions in the energy market today. These transactions eventually result in energy being delivered to the system from specific sources, which generally become known to the buyer and to the California Independent System Operator (ISO) at the time of delivery, or from neighboring electrical systems. To consider these transactions as "unaccounted for energy" is inappropriate. Thus, the Revised Staff Proposal effectively compares apples to oranges.

If the Commission does decide to use Net System Power to determine the carbon intensity for unspecified resource contracts then it should at least adopt a higher and more accommodative performance standard so as to not eliminate all long-term unspecified resource contracts from an IOU's resource mix

The Commission should recognize that non-unit-specific contracts are an essential part of the hybrid market structure today and are critical in hedging the energy cost exposure to the IOUs' ratepayers. The Commission should neither preclude non-unit-specific contracts from being an integral part of an IOU's portfolio, nor create artificial and costly programs just for the sake of creating an illusion of due process.

Ш.

CONCLUSION

SCE respectfully submits its Opening Comments on the Draft Workshop Report.

Respectfully submitted,

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September 8, 2006

CERTIFICATE OF SERVICE

I hereby certify that, pursuant to the Commissioner's Rules of Practice and Procedure, I have this day served a true copy of OPENING COMMENTS OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) ON DRAFT WORKSHOP REPORT on all parties identified in the attached service list(s).

Transmitting the copies via e-mail to all parties who have provided an e-mail address.

First class mail will be used if electronic service cannot be effectuated.

Executed this 8th day of September, 2006, at Rosemead, California.

/s/ RAQUEL IPPOLITI

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GREGORY KOISER CONSTELLATION NEW ENERGY, INC. 350 SOUTH GRAND AVENUE, SUITE 3800 LOS ANGELES, CA 90071 R.06-04-009

AVIS KOWALEWSKI CALPINE CORPORATION 3875 HOPYARD ROAD, SUITE 345 PLEASANTON, CA 94588 R.06-04-009 LARS KVALE CENTER FOR RESOURCE SOLUTIONS PO BOX 39512 SAN FRANCISCO, CA 94129 R.06-04-009 Jonathan Lakritz
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MICHAEL MAZUR 3 PHASES ELECTRICAL CONSULTING 2100 SEPULVEDA BLVD., SUITE 37 MANHATTAN BEACH, CA 90266 R.06-04-009 RICHARD MCCANN M.CUBED 2655 PORTAGE BAY ROAD, SUITE 3 DAVIS, CA 95616 R.06-04-009 BARRY F MCCARTHY ATTORNEY AT LAW MCCARTHY & BERLIN, LLP 100 PARK CENTER PLAZA, SUITE 501 SAN JOSE, CA 95113 R.06-04-009

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BRUCE MCLAUGHLIN BRAUN & BLAISING P.C. 8066 GARRYANNA DRIVE CITRUS HEIGHTS, CA 95610 R.06-04-009 BRIAN MCQUOWN RELIANT ENERGY 7251 AMIGO ST., SUITE 120 LAS VEGAS, NV 89119 R.06-04-009

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EDWARD G. POOLE ATTORNEY AT LAW ANDERSON & POOLE 601 CALIFORNIA STREET, SUITE 1300 SAN FRANCISCO, CA 94108-2818 R.06-04-009

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BRIAN POTTS ONE SOUTH PINCKNEY STREET MADISON, WI 53703 R.06-04-009 RASHA PRINCE SOUTHERN CALIFORNIA GAS COMPANY 555 WEST 5TH STREET, ML 14D6 LOS ANGELES, CA 90013 R.06-04-009

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SAM SADLER OREGON DEPARTMENT OF ENERGY 625 NE MARION STREET SALEM, OR 97301-3737 R.06-04-009

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REED V. SCHMIDT BARTLE WELLS ASSOCIATES 1889 ALCATRAZ AVENUE California City-County Street Light Assoc. BERKELEY, CA 94703-2714 R.06-04-009

Friday, September 8, 2006

LISA SCHWARTZ SENIOR ANALYST ORGEON PUBLIC UTILITY COMMISSION PO BOX 2148 SALEM, OR 97308-2148 R.06-04-009

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AIMEE M. SMITH ATTORNEY AT LAW SEMPRA ENERGY 101 ASH STREET HQ13 SAN DIEGO, CA 92101 R.06-04-009

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SEEMA SRINIVASAN ALCANTAR & KAHL 120 MONTGOMERY STREET, SUITE 2200 SAN FRANCISCO, CA 94104 R.06-04-009 ANNIE STANGE ALCANTAR & KAHL 1300 SW FIFTH AVE., SUITE 1750 PORTLAND, OR 97210 R.06-04-009 MERIDETH TIRPAK STERKEL CALIFORNIA PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE AREA 4-A SAN FRANCISCO, CA 94102-3214 R.06-04-009

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KAREN TERRANOVA ALCANTAR & KAHL 120 MONTGOMERY STREET SUITE 2200 SAN FRANCISCO, CA 94104 R.06-04-009

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EDWARD J TIEDEMANN KRONICK, MOSKOVITZ, TIEDEMANN & GIRARD 400 CAPITOL MALL, 27TH FLOOR SACRAMENTO, CA 95814-4416 R.06-04-009 SCOTT TOMASHEFSKY REGULATORY AFFAIRS MANAGER NORTHERN CALIFORNIA POWER AGENCY 180 CIRBY WAY NORTHERN CALIFORNIA POWER AGENCY ROSEVILLE, CA 95678 R.06-04-009

MARK C TREXLER TREXLER CLIMATE+ENERGY SERVICES, INC. 529 SE GRAND AVE,M SUITE 300 PORTLAND, OR 97214-2232-2232 R.06-04-009

ANDREW J. VAN HORN VAN HORN CONSULTING 12 LIND COURT ORINDA, CA 94563 R.06-04-009 EDWARD VINE LAWRENCE BERKELEY NATIIONAL LAB BUILDING 90-4000 BERKELEY, CA 94720 R.06-04-009 SYMONE VONGDEUANE SEMPRA ENERGY SOLUTIONS 101 ASH STREET, HQ09 SAN DIEGO, CA 92101-3017 R.06-04-009

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JOY WARREN MODESTO IRRIGATION DISTRICT 1231 11TH STREET MODESTO, CA 95354 R.06-04-009

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LINDA WRAZEN SEMPRA ENERGY REGULATORY AFFAIRS 101 ASH STREET, HQ16C SAN DIEGO, CA 92101 R.06-04-009

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MRW & ASSOCIATES, INC. 1999 HARRISON STREET, STE 1440 OAKLAND, CA 94612-3517 R.06-04-009